

Abstract:

The invention device (100) for controlling combustion gases and the thermokinetic characteristics of thermal and chemical reactions of all processes comprises a tubular metallic body (1) which is closed on the ends thereof with a plug (2) provided with an input and output (8,9) and a cap (3) containing a metallic lens (11) arranged therein, the lens having a high thermal diffusivity and one of the faces (12) thereof contacting gaseous fluid (22). An isotropic chamber (5) for measuring a radiative flux is disposed inside the metallic body (1), and a heat flux sensor (20) is fixed on the median plane of the isotropic chamber (5).